

DETERMINING TEMPERATURE AND MOISTURE CONTENTS OF
STORAGE FOR PAPAYA SEED (*Carica papaya*, L)

ZULHASYAH BINTI ABDUL KARI & ABDULLAH

FACULTY OF AGRICULTURE AND FOOD SCIENCE
UNIVERSITI MALAYSIA TERENGGANU

2008



LP 31 FASM 1 2008



1100066835

Optimum temperature and moisture contents of storage for
papaya seed (*Carica papaya. L*) / Zulhisyam Abdul Kari @
Abdullah.

PERPUSTAKAAN SULTANAH NUR ZAHIRAH
UNIVERSITI MALAYSIA TERENGGANU (UMT)
21030 KUALA TERENGGANU

1100066835		

Lihat sebelah

HAK MILIK
PERPUSTAKAAN SULTANAH NUR ZAHIRAH UMT

**OPTIMUM TEMPERATURE AND MOISTURE CONTENTS OF STORAGE
FOR PAPAYA SEED (*Carica papaya*. L)**

Zulhisyam Bin Abdul Kari @ Abdullah

**This project report is submitted in partial fulfillment of the requirement of the
degree of Bachelor of Science in Agrotechnology (Post Harvest Technology)**

**FACULTY OF AGROTECHNOLOGY AND FOOD SCIENCE
UNIVERSITY MALAYSIA TERENGGANU**

2008

This project should be cited as:

Zulhisyam, A.K. 2008. Optimum temperature and moisture contents of storage for papaya seed (*Carica papaya* L.). Undergraduate thesis, Bachelor of Science in Agrotechnology (Post Harvest Technology), Faculty of Agrotechnology and Food Science, Universiti Malaysia Terengganu, Terengganu. 95 p.

No part of this project report may be reproduced by any mechanical, photographic, or electronic process, or in the form of phonographic recording, or may it be used in a retrieval system, transmitted, or otherwise copied for public or private use, without written permission from the author and the supervisor(s) of the project.

1100066885

ACKNOWLEDGEMENTS

Thank God for blessing me in completion of my thesis. High appreciation and great thanks to my supervisors, Dr. Chuah Tse Seng for the supervision, assistance, comments and guidance that enable this project run smoothly. Sincere thanks also to Mr. Kamarul, science officer who has been helping me in preparing a storage place for papaya seeds and assisting me in using laboratory equipments throughout the project. Appreciation I extended to my roommates especially Danial Marzuk, Rashidi, Ahmad Afif and Zulhumaizi in giving me spiritual support. Finally, my gratitude goes to those who have contributed to this project.

ABSTRACT

This experiment examined the suitable temperature and moisture content for storage of papaya seed (*Carica papaya* L.) cultivar of “sekaki”. The seeds were purchased from Department of Agriculture Kota Bharu, Kelantan. The seeds were dried using silica gel to different moisture contents of 6, 8 and 10 % and stored at different temperatures of 0, 4 and 28 °C for three months. Seeds containing 6% moisture content and stored at 0 °C is higher germination percentage, lower dormancy percentage, lower seed death compared to other storage conditions suggesting optimal conditions for seed storage of papaya seeds. However, seeds containing 10% moisture content and stored at 28 °C is not recommended for storage because the seed deterioration rate is higher within three months of storage.